

حمل الآن

مجاناً وحصرياً

المراجعة رقم (1)

اختبار شهر ابريل



Model Exam 1

Total mark

20



Question 1

5

(A) Put (✓) or (X) :

(2 marks)

Objects are pushed away of each other due to gravity.

()

(B) Give reasons for :

(3 marks)

1. Paper clips are pulled toward the magnet.

2. Occurrence of the cycle of seasons.

Question 2

5

(A) Correct the underlined word :

(2 marks)

Magnetism is the force of attraction only.

(.....)

(B) What happens if ... ?

(3 marks)

1. There is no gravity on Earth.

2. A metal ball and feather are fallen down from the same height.

Question 3

5

(A) Choose the correct answer :

(2 marks)

The planets revolve around the Sun in fixed orbits.

a. oval

b. irregular

c. rectangular

d. triangular

(B) What is meant by (Define) :

(3 marks)

1. Earth's axis :

2. Force :

Question 4

5

(A) Cross out the odd word :

(2 marks)

Iron - Gold - Nickel - Cobalt.

(.....)

(B) Complete the following sentences :

(3 marks)

1. Solar system includes and eight revolve around it.
2. A parachute in air is affected by that acts against the force of Earth.

Model Exam 2

Total mark

20

Question 1

5

(A) Choose the correct answer :

(2 marks)

Day and night phenomenon occurs due to the rotation of Earth around

- a. the Sun. b. its axis. c. the moon. d. the solar system.

(B) Compare between :

(3 marks)

1. Friction and magnetism (concerning the definition)

Friction	Magnetism
.....	
.....	

2. Rotation and revolution (concerning definition - example)

P.O.C	Rotation	Revolution
a. Definition :		
b. Example :		

Question 2

5

(A) Put (✓) or (X) :

(2 marks)

Gravity affects only the moving objects but doesn't affect the objects at rest. ()

(B) Write the scientific term of each of the following :

(3 marks)

1. The effect that pulls or pushes an object to make it moves. (.....)
2. The phenomenon that occurs when half of the Earth is facing the Sun. (.....)

Question 3

5

(A) Complete the following sentences using the words below :

(2 marks)

(air resistance - force - friction)

1. The force that slows the movement of objects across solids, liquids or gases is called
2. The force that opposes the movement of objects as they pass through air is called

(B) Give reasons for :

(3 marks)

1. The force of gravity has an important role in the solar system.
.....
2. The Sun appears as it moves across the sky.
.....

Question 4

5

(A) Read the following statements, then classify them according to the effect of gravity on them in the table below :

(2 marks)

1. A pencil rolling on a table.
2. A ball thrown up into the air.
3. A car moves along a straight road.
4. A paper airplane is thrown through the air.

Gravity will cause a change in direction	Gravity will not cause a change in direction
.....	
.....	
.....	

(B) What happens ...?

(3 marks)

1. To the shadow of an object if the Sun locates at east or west in the sky.
.....
2. If the distance between the moon and Earth increases to twice.
.....

Model Exam 3

Total mark

20



Question 1

5

(A) Correct the underlined word :

(2 marks)

Air resistance speeds up an object as it falls.

(.....)

(B) What happens ...?

(3 marks)

1. To planets if the gravity of the Sun disappears.

.....

2. If Earth doesn't rotate on its axis.

.....

Question 2

5

(A) Put (✓) or (X) :

(2 marks)

The solar system includes the Sun and Earth only.

()

(B) Mention :

(3 marks)

1. The factors affecting the gravitational force.

a.

b.

2. Two examples (types) of forces.

a.

b.

Question 3

5

(A) Choose the correct answer :

(2 marks)

..... is considered as a type of friction force.

a. Air resistance

b. Magnetism

c. Gravity

d. Electric force

(B) Complete the following sentences :

(3 marks)

1. The orbiting of Earth around the Sun is called while the spinning of Earth on its axis is called

2. The gravity of the moon affects the phenomenon of ocean

Question 4

5

(A) Choose from column (B) what suits it in column (A) :

(2 marks)

(A)	(B)
1. Force	a. is the force of attraction between objects that have mass.
2. Magnet	b. is the center of the solar system.
3. The Sun	c. attracts metal objects.
4. Gravity	d. is a pull or push that affects an object.
	e. is the path in which planets revolve around the Sun.

1.

2.

3.

4.

(B) Give reasons for :

(3 marks)

1. Although Earth rotates on its axis, we don't feel its movement.

2. Gravity of Earth is greater than gravity of the moon.

Model Exam 4

Total mark

20

Question 1

5

(A) Put (✓) or (X) :

(2 marks)

If two objects don't touch each other, there is no gravity between them.

()

(B) What happens if ...?

(3 marks)

1. The mass of the moon becomes twice its real mass.

2. The skydiver opens his parachute during landing.

Question 2

5

(A) Choose the correct answer :

(2 marks)

Which of the following objects has the least attraction force?

a. The moon.

b. The Earth.

c. The Sun.

d. The magnet.

(B) Give reasons for :

(3 marks)

1. Half of Earth appears dark at night.

2. In the night sky, some stars seem to rise and set like the Sun.

Question 3

5

(A) Complete the following sentence :

(2 marks)

Air resistance is a type of force.

(B) What is meant by (Define) :

(3 marks)

1. Magnetism.

2. Gravity.

Question 4

5

(A) Choose from column (B) what suits it in column (A) :

(2 marks)

(A)	(B)
1. Jupiter	a. is the only star in the solar system.
2. Earth	b. is the fastest planet that rotates on its axis.
	c. is the planet that completes one cycle on its axis in 24 hours.

1.

2.

(B) Write the scientific term of each of the following :

(3 marks)

1. The tool that is used by skydiver to slow his drop.

(.....)

2. The orbiting of Earth around the Sun.

(.....)

Model Exam 5

Total mark

20



Question 1

5

(A) Choose the correct answer :

(2 marks)

A person can exert a weak force to move

- a. a big truck. b. a toy car. c. a real car. d. a very big rock.

(B) Give reasons for :

(3 marks)

1. The gravity between two objects is affected by the distance between them.

2. You always land on the ground when you jump up.

Question 2

5

(A) Put (✓) or (X) :

(2 marks)

Magnetism is a type of friction force.

()

(B) Write the scientific term of each of the following :

(3 marks)

1. The force that slows down the movement of objects through air. (.....)

2. The Sun and the eight planets revolving around it. (.....)

Question 3

5

(A) Complete the following sentence :

(2 marks)

Force may push or the object to make it move.

(B) What happens if ?

(3 marks)

1. The gravity on Earth is a repulsion force not an attraction force.

2. You throw two iron balls have the same mass from the same height.

Question 4

.....

5

(A) Choose from column (B) what suits it in column (A) :

(2 marks)

(A)	(B)
1. Magnetism	a. is the change of an object location due to force.
2. Gravity	b. is a pull force only.
	c. is a pull force or a push force.

1.

2.

(B) What is meant by (Define) :

(3 marks)

1. Friction.

.....

2. Air resistance.

.....

Model Exam 1

- 1 (A) (x)
(B) 1. Due to the force of magnetism.
2. Due to the revolution of Earth around the Sun.
- 2 (A) Gravity
(B) 1. All objects on its surface will float off into space.
2. The metal ball will reach the ground first.
- 3 (A) a
(B) 1. It is an imaginary line passing through the North pole and South pole of Earth.
2. It is a pull or a push that is applied to an object.
- 4 (A) Gold [All items are magnetic materials, while gold is non magnetic material].
(B) 1. Sun – planets
2. air resistance – gravity

Model Exam 2

- 1 (A) b
(B) 1. Friction and Magnetism

Friction	Magnetism
It is a force that opposes the motion of a body across a solid surface or through a gas or a liquid.	It is the force of attraction or repulsion between two magnets or between a magnet and an object.

2. Rotation and revolution

P . O . C	Rotation	Revolution
a. Definition:	It is the spinning of an object around an axis.	It is the orbiting of an object around another object.
b. Example:	Earth rotates on its axis.	Earth revolves around the Sun in an orbit.

- 2 (A) (x)
(B) 1. Force. 2. Day.
- 3 (A) 1. friction. 2. air resistance.
(B) 1. Because gravity between the Sun and objects in the solar system keeps the planets revolve in fixed orbits.
2. Due to the rotation of Earth on its axis.

- 4 (A)

Gravity will cause a change in direction	Gravity will not cause a change in direction
2. A ball thrown up into the air.	1. A pencil rolling on a table.
4. A paper airplane is thrown through the air.	3. A car moves along a straight road.

- (B) 1. The shadow of the object will be the longest.
2. The gravitational attraction between them would become smaller.

Model Exam 3

- 1 (A) slows
(B) 1. They will leave their orbits and float off into space.
2. Phenomenon of day and night will not happen.
- 2 (A) (x)
(B) 1. a. The mass of objects.
b. The distance between them.
2. a. Friction. b. Magnetism.
- 3 (A) a
(B) 1. revolution – rotation.
2. tides.
- 4 (A) 1. d 2. c 3. b 4. a

- (B) 1. Because we are moving with the same speed of Earth.
2. Because the mass of Earth is bigger than the mass of the moon.

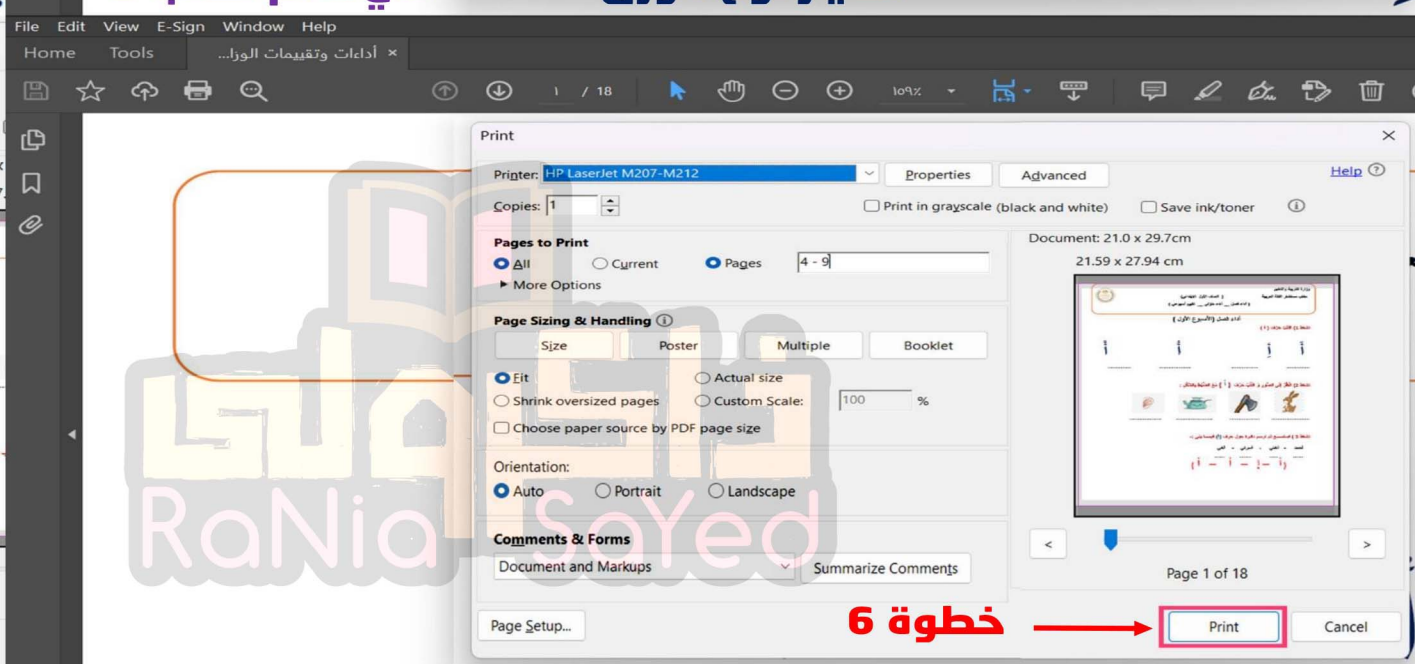
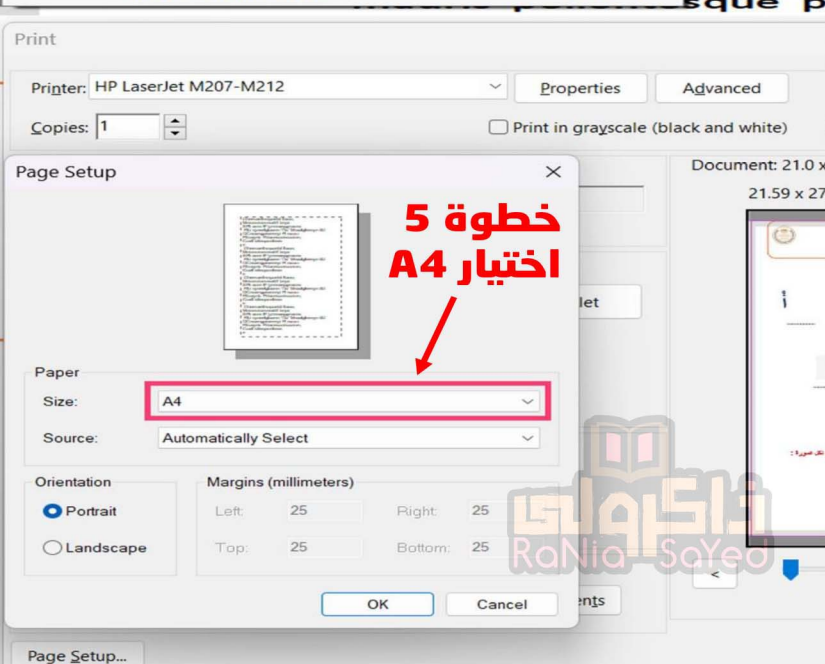
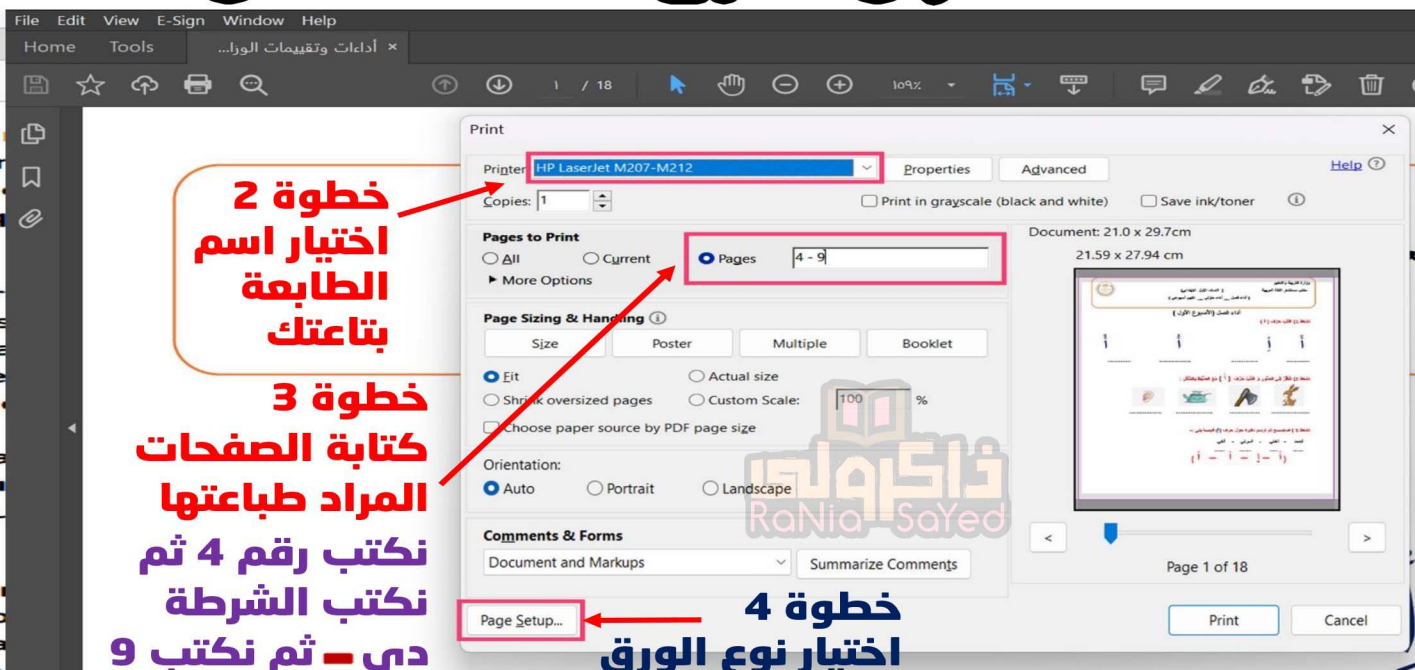
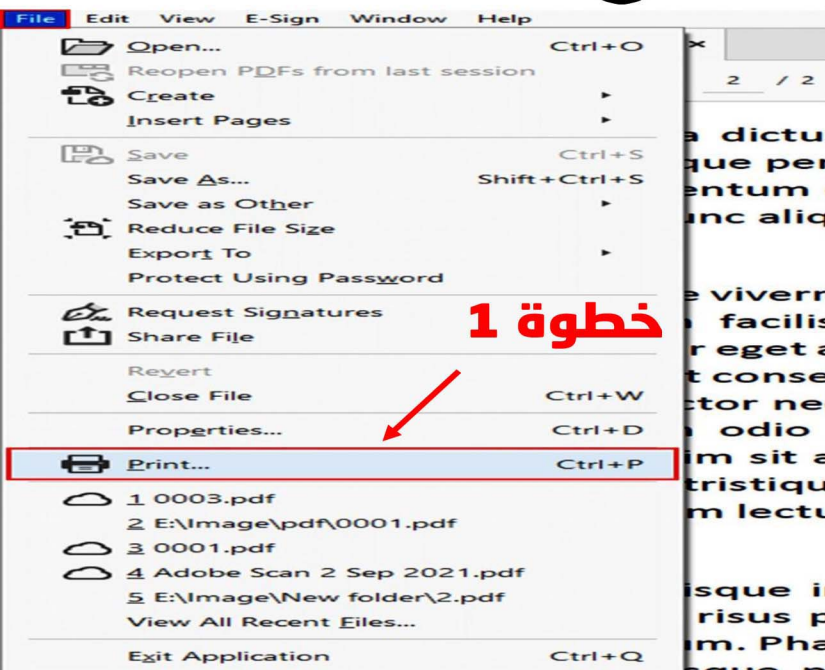
Model Exam 4

- 1 (A) (✗)
(B) 1. The gravitational force between Earth and the moon increases, so the moon comes closer to Earth and it might crash into Earth.
2. The speed of skydiver decreases gradually due to the air resistance.
-
- 2 (A) d
(B) 1. Because it doesn't receive sunlight.
2. Due to Earth's rotation on its axis.
-
- 3 (A) friction
(B) 1. It is the force of attraction or repulsion (pushing away) between two magnets or between a magnet and an object.
2. It is the force of attraction between objects that have mass.
-
- 4 (A) 1. b 2. c
(B) 1. Parachute. 2. Earth's revolution.

Model Exam 5

- 1 (A) b
(B) 1. Because when the distance between them decreases, the gravity increases and vice versa.
2. Because the Earth pulls you by the effect of gravity.
-
- 2 (A) (✗)
(B) 1. Air resistance.
2. The solar system.
-
- 3 (A) pull
(B) 1. All objects on Earth will move upward away from the Earth's surface.
2. They will reach the ground at the same time.
-
- 4 (A) 1. c 2. b
(B) 1. It is a force that opposes the motion of a body across a solid surface or through a gas or liquid.
2. It is a force that opposes the movement of an object as it passes through air.

كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجاناً وحصرياً

المراجعة رقم (2)

اختبار شهر ابريل



1 A) Choose the correct answer:

- Earth rotates around once every 24 hours.

a) its axis b) the Sun c) the moon d) the star

B) What happens when ...?

- 1 There is no gravity between the moon and Earth.

•

- 2 Half of Earth faces the Sun.

•

2 A) Put (✓) or (X):

- Air resistance is a type of friction force.

()

B) What is meant by ...?

- 1 Earth's axis

•

- 2 Magnetism

•

3 A) Complete the following sentence:

- The Sun is located at the center of

B) Give a reason for:

- 1 The Sun appears as it moves across the sky.

•

- 2 When a ball is thrown into air, it moves back down.

•

4

A) Write the scientific term:

- It is a series of events that is repeated in the same order. (.....)

B) Answer the following questions:

- 1 Two bodies, one with a mass of 80 kg and the other with a mass of 50 kg, are at the same height. Which of the two bodies is attracted more strongly to the Earth?

●

- 2 Look at the opposite figure, then answer:

- The force of pulls the skydiver down toward the Earth's surface, and the force of decreases the speed of his/her landing.



1

2

-



A diagram of a vacuum tube experiment. A vertical glass tube is shown with a leaf and a black ball inside. Both are falling towards the bottom. Vertical lines represent the air being removed from the tube, indicating a vacuum environment where both objects fall at the same rate.

Figure (B)

3

4

A) Put (✓) or (X):

- Earth rotates on its axis in clockwise direction.

()

B) What is the importance of...?

1 Binoculars.

•

2 Gravitational force of Earth.

•

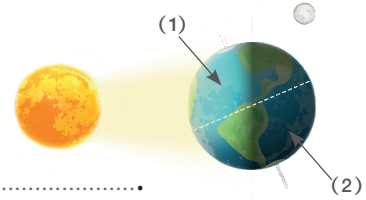
1 A) Complete the following sentence:

- Gravity can exert only a, while a magnetism can exert a

B) Look at the opposite figure, then answer:

- 1 Side (1) has, while side (2) has

- 2 The Sun always rises from and set in the



2 A) Write the scientific term:

- The force that opposes the motion of a body across a solid surface or through a gas or liquid. (.....)

B) Answer the following questions:

- 1 Mention what the following sentence expresses:

The Sun and the planets that revolve around it.

•

- 2 Mention the factors affecting the gravitational force between two objects.

•

3 A) Cross out the odd word:

- Magnetism – Gravity – Friction – Earth

B) Give a reason for:

- 1 Paper clips are pulled toward the magnet.

•

- 2 The length of the shadow of an object changes throughout the day.

•

4 A) Correct the underlined word:

- The gravity of the Sun affects the ocean tides. (.....)

B) What happens when ...?

1 There is no gravity on Earth.

•

2 You press the brake of the car.

•



1 A) Write the scientific term:

- The fastest planet during its rotation on its axis. (.....)

B) Answer the following questions:

- 1 **Compare between:** Earth's rotation and Earth's revolution (In terms of its occurrence and its duration to complete one cycle):

•

- 2 Which planet is affected by the least sun's gravitational force?

•

2 A) Put (✓) or (X):

- If two objects don't touch each other, there is no gravity between them. ()

B) Answer the following questions:

- 1 What is meant by air resistance?

•

- 2 What are the factors affecting the length and angle of shadow of objects on Earth?

•

3 A) Complete the following sentence:

- The direction of Earth's gravity is always toward the of Earth.

B) Give a reason for each of the following:

- 1 Earth's gravity is greater than the moon's gravity.

•

- 2 The Sun appears as it moves across the sky.

•

4 A) Correct the underlined word:

- Gravity is the reason of motion of any body. (.....)

B) What happens when ...?

- 1** The distance between the moon and Earth increases.

•

- 2** The Sun has no gravity.

•

1 A) Choose the correct answer:

- The number of planets which revolve around the Sun is
 - a) 6
 - b) 7
 - c) 8
 - d) 9

B) What happens when...?

- 1 The gravity of Earth is a repulsion force not an attraction force.
 -
- 2 The Earth revolves around the Sun.
 -

2 A) Put (✓) or (X):

- If the mass of an object increases, its gravitational force increases. ()

B) Answer the following questions:

- 1 Cross out the odd word and give a reason:
Cobalt – Iron – Nickel – Copper
 -
- 2 What was the importance of the sundial in ancient times?
 -

3 A) Correct the underlined word:

- At noon, the Sun appears in the west of the sky. (.....)

B) Answer the following questions:

- 1 What is meant by force?
 -
- 2 Look at the opposite figure, then answer:
 - The force generated between the car tires and the road is the force which the motion of the car.



4

A) Complete the following sentence:

- Air resistance increases when the surface area of an object moving through it

.....

B) Give a reason for each of the following:

- 1 The occurrence of the cycle of day and night.

•

- 2 The Sun is the center of motion in the solar system.

•

1 A) Choose the correct answer:

- Earth rotates around once every 24 hours.

a) its axis b) the Sun c) the moon d) the star

B) What happens when ...?

- 1 There is no gravity between the moon and Earth.

- The moon will float off into space.

- 2 Half of Earth faces the Sun.

- This half has day.

2 A) Put (✓) or (X):

- Air resistance is a type of friction force.

(✓)

B) What is meant by ...?

- 1 Earth's axis

- It is an imaginary line passing through the North pole and South pole of Earth.

- 2 Magnetism

- It is the force of attraction or repulsion between two magnets or between a magnet and an object.

3 A) Complete the following sentence:

- The Sun is located at the center of the solar system.

B) Give a reason for:

- 1 The Sun appears as it moves across the sky.

- Due to Earth's rotation on its axis.

- 2 When a ball is thrown into air, it moves back down.

- Because Earth pulls the ball by the effect of gravity.

4**A) Write the scientific term:**

- It is a series of events that is repeated in the same order.

(Cycle)**B) Answer the following questions:**

- 1** Two bodies, one with a mass of 80 kg and the other with a mass of 50 kg, are at the same height. Which of the two bodies is attracted more strongly to the Earth?

- The body with 80 kg.

- 2** Look at the opposite figure, then answer:

- The force of **gravity** pulls the skydiver down toward the Earth's surface, and the force of **air resistance** decreases the speed of his/her landing.



1 A) Correct the underlined word:

- Any object that has length must have gravity force.

(mass)

B) Give a reason for:

- Planets revolve around the Sun in fixed orbits.
 - Due to the great gravitational pulling force between the Sun and planets.
- Although Earth rotates on its axis, we don't feel its movement.
 - Because we are moving with the same speed of Earth.

2 A) Write the scientific term:

- The orbiting of Earth around the Sun.

(Revolution)

B) Answer the following questions:

- What is meant by gravity?
 - It is the force of attraction between objects that have mass.
- Look at the opposite figure, then answer:
Mention the forces that affect the bodies in figures (A) and (B).
 - The two bodies in figure (A) are affected by gravity and air resistance.
 - The two bodies in figure (B) are affected by gravity only.



Figure (A)



Figure (B)

3 A) Choose the correct answer:

- Magnetism is a force that attracts objects made of
 - iron and nickel
 - plastic and copper
 - nickel and gold
 - silver and gold

B) What happens ...?

- To the length of the shadow of a tree at noon.
 - It will be the shortest shadow of the tree.
- When two same poles of two magnets get close to each other.
 - The magnets push away from each other.

4

A) Put (✓) or (X):

- Earth rotates on its axis in clockwise direction.

(X)

B) What is the importance of...?

1 Binoculars.

- They are used to see distant celestial objects in more details.

2 Gravitational force of Earth.

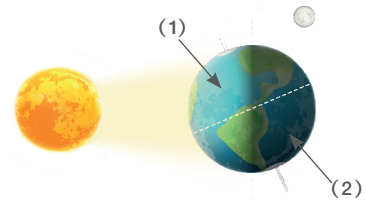
- It pulls everything and holds them to the ground toward the center of Earth's surface.

1 A) Complete the following sentence:

- Gravity can exert only a **pulling force**, while a magnetism can exert a **pulling or pushing force**.

B) Look at the opposite figure, then answer:

- 1 Side (1) has **day**, while side (2) has **night**.
- 2 The Sun always rises from **east** and set in the **west**.



2 A) Write the scientific term:

- The force that opposes the motion of a body across a solid surface or through a gas or liquid. (**Friction**)

B) Answer the following questions:

- 1 **Mention what the following sentence expresses:**
The Sun and the planets that revolve around it.
• **The solar system.**
- 2 **Mention** the factors affecting the gravitational force between two objects.
• **Mass of objects and the distance between them.**

3 A) Cross out the odd word:

- Magnetism – Gravity – Friction – **Earth**

B) Give a reason for:

- 1 Paper clips are pulled toward the magnet.
• **Because paper clips are magnetic materials.**
- 2 The length of the shadow of an object changes throughout the day.
• **Due to the change in the position of the Sun in the sky.**

4 A) Correct the underlined word:

- The gravity of the Sun affects the ocean tides. (**moon**)

B) What happens when ...?

- 1 There is no gravity on Earth.
 - All objects on its surface will float off into space.
- 2 You press the brake of the car.
 - The speed of the car decreases until it stops.



1 A) Write the scientific term:

- The fastest planet during its rotation on its axis.

(Jupiter)

B) Answer the following questions:

- 1 **Compare between:** Earth's rotation and Earth's revolution (In terms of its occurrence and its duration to complete one cycle):

Point of comparison	Earth's rotation	Earth's revolution
Its occurrence	Earth rotates on its axis	Earth revolves around the Sun
Its duration to complete one cycle	One day (24 hours)	One year

- 2 Which planet is affected by the least sun's gravitational force?

- Neptune.

2 A) Put (✓) or (X):

- If two objects don't touch each other, there is no gravity between them.

(X)

B) Answer the following questions:

- 1 What is meant by air resistance?
 - It is a force that opposes the movement of an object as it passes through air.
- 2 What are the factors affecting the length and angle of shadow of objects on Earth?
 1. The position of the Sun throughout the day.
 2. The amount of sunlight that reaches Earth's surface during different seasons.

3 A) Complete the following sentence:

- The direction of Earth's gravity is always toward the center of Earth.

B) Give a reason for each of the following:

- 1 Earth's gravity is greater than the moon's gravity.
 - Because the mass of Earth is bigger than the mass of the moon.
- 2 The Sun appears as it moves across the sky.
 - Due to the rotation of Earth on its axis.

4 A) Correct the underlined word:

- Gravity is the reason of motion of any body.

(Force)

B) What happens when ...?

- 1** The distance between the moon and Earth increases.
 - The gravitational force between Earth and the Moon becomes smaller.
- 2** The Sun has no gravity.
 - The planets will leave their orbits and float off into space.

1 A) Choose the correct answer:

- The number of planets which revolve around the Sun is
 - a) 6
 - b) 7
 - c) 8
 - d) 9

B) What happens when...?

- 1 The gravity of Earth is a repulsion force not an attraction force.
 - All objects on its surface will move upward away from Earth's surface.
- 2 The Earth revolves around the Sun.
 - The cycle of four seasons will happen.

2 A) Put (✓) or (X):

- If the mass of an object increases, its gravitational force increases. (✓)

B) Answer the following questions:

- 1 Cross out the odd word and give a reason:
Cobalt – Iron – Nickel – Copper
 - (Copper/ because the others are magnetic materials (attracted to magnets).
- 2 What was the importance of the sundial in ancient times?
 - The sundial was used to detect the time in ancient times.

3 A) Correct the underlined word:

- At noon, the Sun appears in the west of the sky. (center)

B) Answer the following questions:

- 1 What is meant by force?
 - It is a pull or a push that is applied to an object.
- 2 Look at the opposite figure, then answer:
 - The force generated between the car tires and the road is the friction force which decreases the motion of the car.



4

A) Complete the following sentence:

- Air resistance increases when the surface area of an object moving through it increases.

B) Give a reason for each of the following:

- 1 The occurrence of the cycle of day and night.
 - Due to the Earth's rotation on its axis.
- 2 The Sun is the center of motion in the solar system.
 - Because the Sun is much bigger than all the other objects in the solar system, so its gravity pulls the other planets toward it.

حمل الآن

مجاناً وحصرياً

المراجعة رقم (3)

اختبار شهر ابريل



Revision on Concept 4.1

Effects of Gravity

1 Definitions:

Gravity	• It is the force that pulls objects with mass toward the center of the Earth. • It is the force of attraction that exists between objects that have mass.
Force	It is a pull or a push that is applied to an object.
Motion	It is a change in the position of an object compared to another object.
Magnetism	It is the force of attraction or repulsion between two magnets or between a magnet and some objects.
Moon	It is a celestial body that orbits the Earth in a fixed orbit.
Friction	It is a force that opposes the motion of a body across a solid surface or through a gas or liquid.
Air resistance	It is a type of friction force that opposes the movement of an object as it passes through the air.

2 Give a reason for:

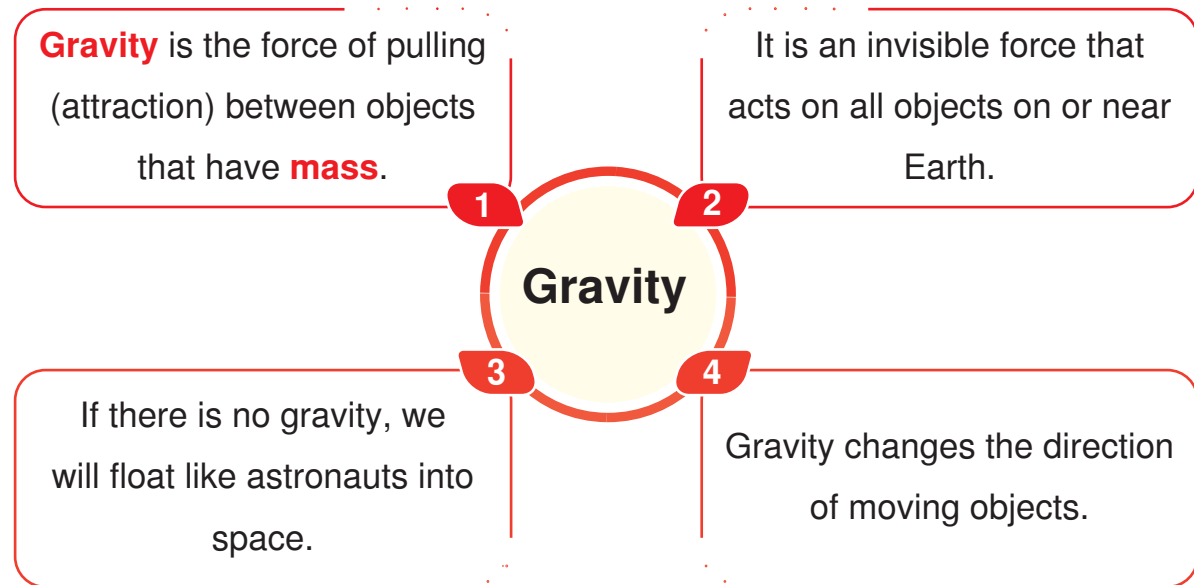
- ① The moon is attracted to the Earth.
 - Due to the gravitational force of the Earth.
- ② Astronauts seem to float into space.
 - Because there is no gravity in space.
- ③ Paperclips are pulled toward a magnet.
 - Due to the pulling force of the magnet.
- ④ Air resistance affects the movement of an object that falls from a height.
 - Because air resistance works against the force of gravity, to slow down the movements of objects.
- ⑤ The force of gravity has an important role in the solar system.
 - Because the sun's gravity keeps the planets revolving in fixed orbits around the sun.
- ⑥ The gravity between two objects depends on the distance between them.
 - As the distance between two objects increases, the gravity between them decreases, and vice versa.

- ⑦ Earth's gravity is greater than the moon's gravity.
 - Because Earth has a greater mass than the moon.
- ⑧ The bike stops after a while when you stop pedaling.
 - Due to the friction between the tires and the ground, the bike slows down until it stops.
- ⑨ The skydiver opens his parachute during landing.
 - To increase air resistance to the parachute and slow down his drop.
- ⑩ The sun is considered the center of the solar system.
 - Because the sun has the greatest gravity in the solar system.
- ⑪ You always land on the ground when you jump up.
 - Because the gravity pulls you toward the Earth's center.
- ⑫ Planets revolve around the sun in fixed orbits.
 - Due to the gravity around the sun.

3 What happens:

- ① If the distance between the Earth and the moon increases to twice?
 - The gravity between the Earth and the moon decreases, and the moon might float into space.
- ② If the mass of the moon becomes twice its real mass?
 - The gravity between the moon and the Earth increases, so the moon might crash into the Earth.
- ③ To the moon if there's no gravity between the moon and the Earth?
 - The moon might float off into space.
- ④ If the mass of the moon decreases to half?
 - The gravity between the Earth and the moon decreases, and the moon might float into space.
- ⑤ To the ball when it is thrown up into the air?
 - Gravity pulls it down, changing its direction.
- ⑥ To the planets if the sun has no gravity?
 - The planets float off into space and leave their orbits around the sun.
- ⑦ If a magnet is placed near some paperclips?
 - The magnet attracts the paperclips.
- ⑧ If a skydiver opens his parachute during landing?
 - Air resistance increases, so the speed of his drop decreases.
- ⑨ If a metal ball and a feather fall down from a tower?
 - The metal ball reaches the ground before the feather one

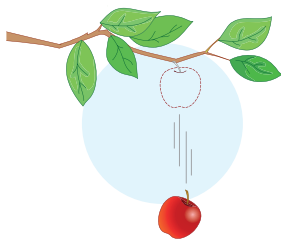
4 Summary:



Examples of Gravity Forces:

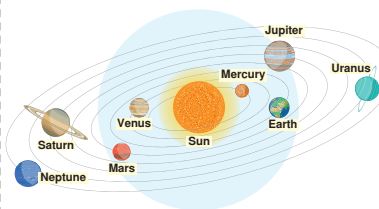
1. The Earth's Gravity

It pulls objects with mass down toward the center of the Earth.



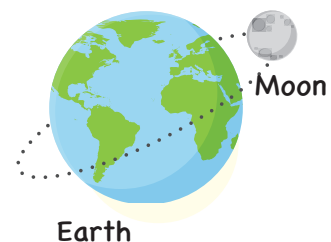
2. The Sun's Gravity

It keeps the planets in fixed orbits around the sun.



3. The Moon's Gravity

It affects the ocean tides.



Factors Affecting Gravity Between Two Objects

1

The mass of the two objects

(Gravity increases as the mass of the objects increases, and vice versa.)

2

The distance between the two objects

(Gravity increases as the distance between the two objects decreases, and vice versa.)

Force

It is a **pull** or a **push** applied to an object.

Types of Forces

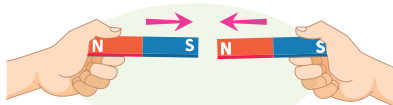
1 Magnetism:

- It is the force of **attraction** or **repulsion** between two magnets or between a magnet and some objects.
- Magnets have an **invisible** force that cannot be seen, known as magnetism.



The attraction force of the magnet (Pulling Force)

- 1 A magnet pulls another magnet.

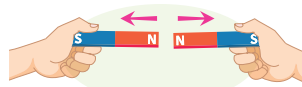


- 2 A magnet attracts some metal objects made of iron, cobalt, and nickel.



The repulsion force of the magnet (Pushing Force)

A magnet pushes (repels) another magnet.



2 Friction:

- It is a force that opposes the motion of a body across a solid surface or through a gas or liquid.



1

It arises between two objects touching each other.

2

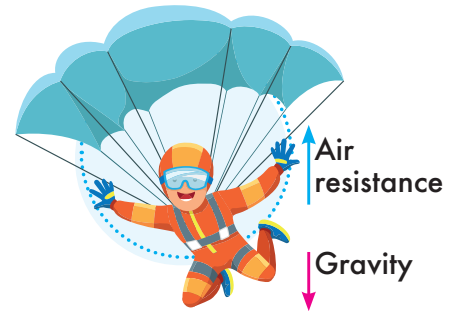
It acts in the **opposite** direction of the object's motion.

3

It **slows down** the object's movement.

3 Air Resistance:

- It is a type of friction force.
- It is a force that **opposes** the movement of an object as it passes through the air.
- A skydiver opens his parachute during landing to:
 - Increase the air resistance against gravity.
 - Decrease the speed of his landing on Earth.



If there is no air resistance:

- All bodies will reach the ground at the same time because the force of gravity is constant and acts on all bodies in the same way.



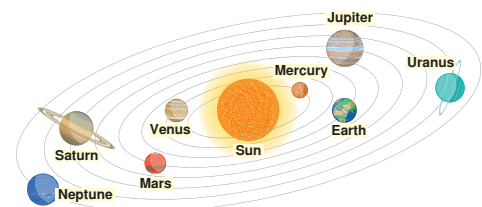
4 Wind Force:

- Wind pushes the blades of a wind turbine, causing their movement.



Solar System

- » Our solar system consists of the sun and eight planets that revolve around it.
- » Each planet revolves around the sun in a fixed path called an orbit, which has an elliptical (oval) shape.
- » **Nicolaus Copernicus** stated that Earth revolves around the sun.
- » Earth revolves around the sun at a speed that nearly equals **107,000** km per hour.



Revision on Concept 4.2

Patterns of Motion in the Sky

1 Definitions:

Earth's axis	It is an imaginary line that passes through the two poles of Earth.
Rotation	It is the spinning of the object on its axis.
Revolution	It is the orbiting of the object around another object.
Cycle	It is a series of events that are repeated in the same order.
Solar system	It is a system that includes the sun and eight planets that revolve around the sun in fixed orbits.
Jupiter	It is the fastest-rotating planet on its axis in the solar system.

2 Give a reason for:

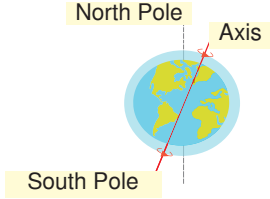
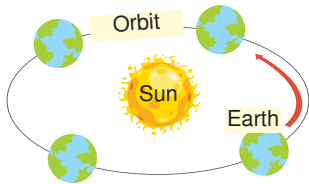
- ① The day and night phenomenon occurs.
 - Due to the rotation of the Earth on its axis.
- ② The sun appears to move across the sky throughout the day.
 - Due to the rotation of the Earth around its axis.
- ③ The four seasons cycle occurs.
 - Due to the revolution of the Earth around the sun.
- ④ The position of the sun changes in the sky throughout the day.
 - Due to the Earth's rotation around its axis.
- ⑤ The length of the shadow of an object changes throughout the day.
 - Because the position of the sun changes in the sky throughout the day as the Earth rotates on its axis.
- ⑥ Although Earth rotates on its axis, we don't feel its movement.
 - Because we are moving at the same speed of the Earth.

3 What happens if:

- ① The Earth rotates on its axis?
 - The cycle of day and night occurs.
- ② The Earth stops spinning on its axis?
 - The cycle of day and night does not occur.
- ③ Half of the Earth faces the sun?
 - This half of Earth has day.
- ④ The Earth rotates in a clockwise direction on its axis?
 - The sun and other stars seem to move from west to east.
- ⑤ The Earth revolves around the sun?
 - The cycle of four seasons occurs.

4 Summary:

Earth Motion

P.O.C	Earth rotation on its axis	Earth revolution around the sun
Figure		
Duration	One day (24 hours)	One year ($365 \frac{1}{4}$ days)
Results	The cycle of day and night The apparent motion of the sun Movement of shadow	The cycle of four seasons
Speed	1,600 kilometers per hour	107,000 km per hour
Direction	Counterclockwise (From west to east)	

» We can't feel the Earth's motion, as we move at the same speed of the Earth.

Earth's axis

It is an imaginary line passing through the North and South Poles of Earth.

Cycle

It is a series of events that are repeated in the same order.

Rotation

It is the spinning of an object on its axis.

Revolution

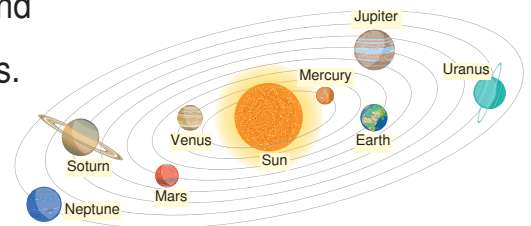
It is the orbiting of an object around another object.

Solar system

» The solar system includes **one star**, which is the sun and **eight planets** that revolve around the sun in fixed orbits.

» Planets rotate on their axes at different speeds.

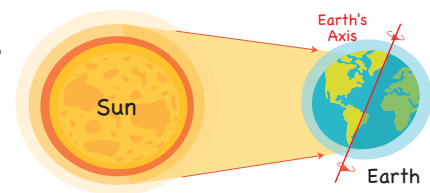
» **Jupiter** is the fastest-rotating planet on its axis in the solar system.



Important concepts about Earth's rotation on its axis

1 The cycle of day and night:

1. The half of the Earth faces the sun, so this part has day.
2. The half of the Earth away from the sun, so this part has night.



2 The apparent motion of the sun:

- The sun rises at the east and set at the west.

3 The Movement of shadow:

Earth's **rotation**
on its axis

affects

The **position** of
the sun in the sky

affects

The **length** and
angle of the shadow
throughout the day

In the early morning



The sun is low in the
sky (in the east).

At noon



The sun is high in the
sky.

In the late afternoon



The sun is low in the
sky (in the west).

An object has the
shortest shadow.

An object has the **longest** shadow.

» The angle and the direction of shadow are affected by:

1. The amount of sunlight that reaches the Earth during different seasons.
2. The position of the sun throughout the day.

Sundial

A timepiece invented by ancient Egyptians to track
time using length and direction of shadow.

1 (A) Complete the following statement:

- Stars seem bright because they are made up of

(B) Write the scientific term:

1. It is a phenomenon that occurs when the Earth rotates on its axis.
(.....)
2. It is a phenomenon that takes place in oceans due to the gravity of the moon.
(.....)

2 (A) Read the following statements then correct the incorrect ones:

1. Magnet pulls metal paper clips due to the force of gravity.
.....
2. The moon's gravitational force is greater than Earth's gravitational force.
.....

(B) Give a reason for:

1. The occurrence of four seasons.
.....
2. The force of gravity has an important role in the solar system.
.....

3 (A) Choose the correct answer:

- Gravity keeps the moon in a fixed orbit around
 (a) the sun (b) the Earth (c) itself (d) solar system

(B) What happens if:

- Binoculars were not invented?
.....

(C) Give one example for:

- Metal attracted to the magnet

1 (A) Complete the following statement:

- As the Earth rotates on its axis, the side faces the sun has a

(B) Write the scientific term:

1. The scientist who proved that the sun is the center of our solar system.
(.....)
2. It is an imaginary line passing through the two poles of Earth.
(.....)
3. It includes the sun and the planets that revolve around it.
(.....)

2 (A) Mention one use of:

- Parachute for skydiver.
.....

(B) Give a reason for:

- Objects on the Earth's surface remain stable.
.....

(C) What happens if:

- The ball when it is thrown up into the air?
.....

3 (A) Put true or false:

- Air resistance increases the speed of falling objects to Earth. ()

(B) Cross the odd word

- Iron – Copper – Nickel – Cobalt (.....)

(C) Classify the following to revolution or rotation:

- It is the spinning of an object around an axis. (.....)

1 (A) Complete the following statement:

1. The force of gravity between two objects decreases as the between them increases.
2. Air resistance is a type of force.

(B) Write the scientific term:

1. It is a group of stars, planets, and gases held together by gravity.
(.....)
2. It is a force that is found between two magnets or between the magnet and an object.
(.....)

2 (A) Put true or false:

- Light objects reach the Earth faster than heavy objects in the absence of air resistance. ()

(B) Give a reason for:

- The occurrence of the cycle of day and night.

.....

(C) A body with a mass of 20 kg and another with a mass of 15 kg: Which one does the Earth attract more? Give a reason for your answer.

.....

3 (A) Choose the correct answer:

- The planets revolve around the sun in fixed orbits.
 (a) rectangular (b) oval (c) triangular (d) irregular

(B) What happens to:

- The moon if there is no gravity between the moon and the Earth?

.....

(C) Mention:

- A factor that affects gravity.

.....

1 (A) Choose the correct answer:

- The gravitational force of an object as its mass decreases.
 (a) increasees (b) decreases (c) disappears (d) doesn't change

(B) Write the scientific term:

- It is the only star in the solar system. (.....)
- It is a pull or push that is applied to an object. (.....)
- It is a dark celestial body that revolves around the Earth and reflects sunlight.
 (.....)

2 (A) What is meant by:

- Air Resistance?

.....

(B) Correct the underlined word:

- Magnetism force opposes the motion of the body and slows down its speed.
 (.....)

(C) Give a reason for:

- Planets revolve around the sun in fixed orbits.

- The gravity of the Earth is greater than the gravity of the moon.

3 (A) What happens if:

- The Earth stopped rotating on its axis?

- There is no gravity between planets and the sun?

(B) Mention two tools that are used to discover the universe and study the celestial bodies.

.....

1 (A) Complete the following statement:

- An object at rest needs a to move.

(B) Write what the following statement refers to:

1. It is a group of stars that looks like a certain shape in the sky.
(.....)
2. It is a force between two objects in contact with each other, and it acts in the opposite direction of the movement. (.....)
3. It is the fastest rotating planet in the solar system.
(.....)

2 (A) Give a reason for:

1. Your bike will stop when you stop pedaling.
.....
2. The sun looks much larger to us than other stars.
.....

(B) What happens if:

- The mass of the moon decreases to half?
.....

3 (A) Read the following statements then correct the incorrect ones:

1. The gravity of the sun affects ocean tides.
.....
2. At noon the sun forms the longest shadow of objects.
.....

(B) Mention one use of the telescope.

.....

Models answers

April Tests } Model Exam(1)

- Q 1 A)** • super hot gases
B) 1- Cycle of day and night
2- Ocean tides
- Q 2 A) 1-** Magnet pulls metal paper clips due to the force of magnetism.
2- The moon's gravitational force is less than Earth's gravitational force.
B) 1- Due to Earth's revolution around the sun.
2- Because the gravity between the sun and planets keeps the planets revolving in fixed orbits around the sun.
- Q 3 A)** • ⑥
B) • We will not be able to see distant celestial bodies in more details.
C) • Iron

April Tests } Model Exam(2)

- Q 1 A)** • day
B) 1- Copernicus **2-** Earth's axis
3- Solar system
- Q 2 A)** • To slow down his speed during landing due to air resistance.
B) • Due to gravity of the Earth that pull objects down toward its center.
C) • It will fall toward the Earth by the effect of gravity.
- Q 3 A)** • (x)
B) • Copper
C) • Rotation

April Tests } Model Exam(3)

- Q 1 A) 1-** distance **2-** Friction
B) 1- Galaxy **2-** Magnetism
- Q 2 A)** • (✓)
B) • Due to Earth's rotation on its axis.
C) • The Earth attracts the body with a mass of 20 kg, because it has a greater mass.
- Q 3 A)** • ⑥
B) • The moon will float off into space.
C) • The mass of an object.

April Tests } Model Exam(4)

- Q 1 A)** • ⑥
B) 1- The sun **2-** Force
3- The moon
- Q 2 A)** • It is a force that opposes the movement of an object as it passes through air.
B) • Friction
C) 1- Due to the great gravitational attraction force between the sun and planets.
2- Because the mass of Earth is greater than the mass of the moon.
- Q 3 A) 1-** The cycle of day and night will not occur.
2- The planets will float off into space and leave their orbits.
B) 1- Galileo Binoculars **2-** Hubble Telescope

April Tests } Model Exam(5)

- Q 1 A)** • force
B) 1- Constellation **2-** Friction force
3- Jupiter
- Q 2 A) 1-** Due to the friction force that slows down the bike until it stops.
2- Because it is the largest object in the solar system and the closest star to Earth.
B) • The gravitational force between Earth and the moon decreases, so the moon might float off into space.
- Q 3 A) 1-** The gravity of the moon affects ocean tides.
2- At noon the Sun forms the shortest shadow of objects.
B) • It helps us to see distant celestial bodies in more detail.

5

Exams on

Concept 4.1

Model Exam 1

Q1. (A) Choose the correct answer:

- The gravity force depends on the of the object.
a. mass b. temperature c. shape d. color
- In the solar system, planets stay in their orbits due to the gravity of
a. the moon b. the Sun c. Mars d. Earth
- Magnetism is a force that attracts objects made of the following materials, except the
a. nickel b. cobalt c. iron d. wood

(B) What happens to:

- The moon if there's no gravity between the moon and Earth?

Q2. (A) Put (✓) or (x):

- Air resistance opposes the movement of objects through air. ()

(B) Write the scientific term:

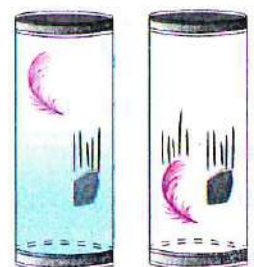
- It is the force of attraction that exists between objects that have mass. ()
- It is the law which states that the force of gravity is constant and acts on all objects in the same way. ()

Q3. (A) Cross out the odd word:

- Magnetism - Gravity - Friction - Earth ()

(B) Imagine that jar (A) contains air, while jar (B) doesn't contain air.**Then, answer the following:**

- Complete:** In jar (A), the feather is affected by air resistance than the stone.
- Why are the feather and the stone moving with same speed in jar (B)?



Jar A

Jar B

Model Exam 2

Q1. (A) Choose the correct answer:

- The moon has greater gravity than that of
 a. Earth only b. the Sun c. a magnet d. Earth and the Sun
- A person can exert a weak force to move (Giza 2023)
 a. a big truck b. a real car
 c. a very big rock d. a toy car
- The Earth attracts objects towards
 a. its center b. the sky c. the moon d. the Sun

(B) What happens if:

- A skydiver opens his parachute during landing?

Q2. (A) Put (✓) or (x):

- Gravity only affects objects in motion. ()

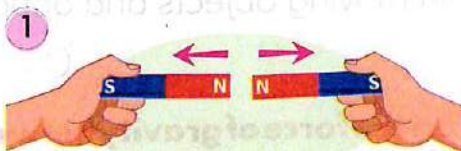
(B) Complete the following sentences:

- is a pull or push that is applied to an object.
- Earth revolves around the Sun in the shape of an orbit.

Q3. (A) Correct the underlined word:

- Friction force acts in the same direction of the object's motion.
 (.....)

(B) Observe the following figures, then mention if the acting force is attraction or repulsion:



Model Exam 3

Q1. (A) Choose the correct answer:

1. _____ is a factor that acts against the force of gravity.
 - a. Magnetism
 - b. The mass of an object
 - c. Air resistance
 - d. The shape of an object
2. The orbit that each planet revolves in around the Sun has _____ shape.
 - a. a circular
 - b. an oval
 - c. a zigzag
 - d. a rectangular
3. The solar system consists of _____.
 - a. the Sun and moon only
 - b. the Sun and a group of planets
 - c. the Sun and Earth only
 - d. a group of planets only

(B) What happens to:

1. Planets of the solar system if the Sun has no gravity?

Q2. (A) Put (✓) or (x):

1. A magnet can push the objects which are made of some metals, such as iron. ()

(B) Complete the following sentences:

1. When a skydiver opens his parachute, his landing velocity _____.
2. _____ lies in the center of the solar system.

Q3. (A) Correct the underlined word:

1. Gravity is the force that slows down moving objects and opposes their motion. (_____)

(B) Mention the two factors that affect the force of gravity between two objects.

1. _____
2. _____

Model Exam 4**Q1. (A) Choose the correct answer:**

- 1 Magnetism is a kind of force that involves
 a. repulsion only b. attraction only
 c. repulsion and attraction d. visible and invisible forces
- 2 The gravitational force of an object as its mass increases.
 a. increases b. decreases c. equals zero d. doesn't change
- 3 The skydiver in the sky is affected by
 a. gravity only b. air resistance only
 c. magnetism d. gravity and air resistance

(B) What happens if:

- The distance between the moon and Earth increases to its twice?

Q2. (A) Cross out the odd word:

- Cobalt – Wood – Nickel – Iron (.....)

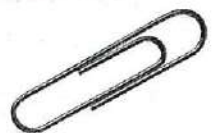
(B) Complete the following sentences:

- 1 An astronaut floats in space due to the absence of
- 2 The attraction force between the Earth and the Sun is
 than that between the Earth and the moon.

Q3. (A) Put (✓) or (X):

- The Earth's gravity changes the direction and mass of moving objects. ()

(B) Which one of the following objects will reach the ground first on dropping them from a tower? And why?

**Object 1****Object 2**

Model Exam 5

Q1. (A) Choose the correct answer:

- The materials that are attracted to the magnet include
 a. iron and nickel b. aluminum and copper
 c. copper and silver d. silver and gold
- The direction of Earth's gravity is always toward the
 a. the center of the moon b. the poles of the Earth
 c. the sky of the Earth d. the center of the Earth
- A table standing on the ground needs to move.
 a. sunlight b. mass c. a force d. air

(B) Give a reason for:

- The speed of your bike decreases when you stop pedaling.
 (.....)

Q2. (A) Correct the underlined word:

- Objects move down toward the ground due to the effect of magnetism.
 (.....)

(B) Write the scientific term:

- He is a scientist that proved that the Sun is the center of our solar system.
 (.....)
- It is the force that opposes the movement of an object across a solid surface, liquids, or gases.
 (.....)

Q3. (A) Put (✓) or (x):

- Earth revolves around the moon at a speed that nearly equals 107,000 km per hour.
 (.....)

(B) Look at the following figure, then complete:

- Force (A) is called
- Force (B) is called



5**Exams on****Concept 4.2****Model Exam 1****Q1. (A) Choose the correct answer:**

- 1 is the fastest-rotating planet on its axis in the solar system.
 a. Jupiter b. Earth c. Mars d. The moon
- 2 The Earth rotates on its axis once every
 a. 24 days b. 24 hours c. 365 days d. 365 hours
- 3 Stars and the Sun are made of hot gases; most of them are and
 a. hydrogen - oxygen b. hydrogen - nitrogen
 c. nitrogen - helium d. helium - hydrogen

(B) Give a reason for:

- The day and night phenomenon occurs.
-

Q2. (A) Put (✓) or (X):

- The solar system is a group of stars, planets, and gases held together by gravity. ()

(B) Write the scientific term:

- 1 It is a wide space that contains celestial objects, such as galaxies, stars, and planets. (.....)
- 2 It is a special building with a dome ceiling and is used to see images of celestial bodies. (.....)

Q3. (A) Cross out the odd word:

- Crescent - Gibbous - Earth - New Moon (.....)

(B) From the opposite figure, complete:

- 1 This figure represents constellation
- 2 This constellation consists of a group of



2

Q1. (A) Choose from column (A) what suits it in column (B):

Column (A)	Column (B)
1 The Sun	a. is the first timepiece that was used by ancient Egyptians to know the time.
2 The sundial	b. is a dark celestial body that gives off its own light
3 The moon	c. is a medium-sized star that gives off its own light.
	d. is a dark celestial body that revolves around Earth.

1 XXXXXXXXXXXXXXXXXXXX

2 XXXXXXXXXXXXXXXXXXXX

3 XXXXXXXXXXXXXXXXXXXX

(B) What happens if:

- The Earth stops spinning on its axis?

Q2. (A) Choose the correct answer:

- The Sun appears as it moves from to
- a. south – north b. west – east
- c. east – west d. north – south

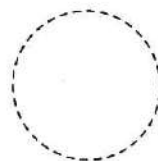
(B) Write the scientific term:

- 1 It is a group of stars that forms a pattern in the sky. (.....)
- 2 It is an imaginary line passing through the two poles of Earth. (.....)

Q3. (A) Put (✓) or (x):

- ☉ Constellations help us determine the main directions. ()

(B) Write the moon phase of each of the following pictures of the moon:



 Bioscience Resource Project

Model Exam 3**Q1. (A) Choose the correct answer:**

- 1 The shortest shadow of an object appears
 a. in the morning b. in the afternoon
 c. at noon d. at night
- 2 The number of stars in the solar system is
 a. one b. eight c. nine d. two
- 3 Half of the moon face can be seen illuminated in the phase.
 a. New Moon b. Quarter c. Gibbous d. Full Moon

(B) Give a reason for:

- The stars seem bright in the night sky.
-

Q2. (A) Correct the underlined word:

- Copernicus proved that the Earth is the center of the solar system.
 (.....)

(B) What happens:

- 1 If half of the Earth faces the Sun?
-

- 2 To a tree's shadow in the morning and at noon?
-

Q3. (A) Put (✓) or (x):

- The sunrise and the sunset occur at the same time every day. ()

(B) Classify the following to revolution or rotation:

- 1 It is the spinning of an object around an axis:
- 2 It is the movement of an object around another object:

Model Exam 4

Q1. (A) Choose the correct answer:

- 1 Every night, new stars appear from the
 a. north b. south c. east d. west
- 2 has the greatest gravitational force in the solar system
 a. Jupiter b. The moon c. Earth d. The Sun
- 3 The moon appears as a completely bright circle at the phase.
 a. New Moon b. Full Moon c. Crescent d. Quarter

(B) Give a reason for:

- 1 The Sun appears to move across the sky from the east to the west.

Q2. (A) Cross out the odd word:

- 1 Earth - Stars - The moon - Jupiter (.....)

(B) Write the scientific term:

- 1 It is the time taken by the moon to make one revolution around Earth. (.....)
- 2 It is a phenomenon that occurs when half of the Earth doesn't receive any sunlight. (.....)

Q3. (A) Put (✓) or (x):

- 1 The Earth orbits the Sun in an elliptical path. ()

(B) Compare between the moon's cycle and the seasons' cycle according to the cause of their occurrence:

Moon's Phases Cycle	Four Seasons Cycle
.....	
.....	
.....	

Model Exam 5**Q1. (A) Choose the correct answer:**

- 1 The moon appears completely dark in the phase, which occurs in the of the lunar month.
 a. Full Moon – beginning b. Crescent – end
 c. New Moon – beginning d. New Moon – end
- 2 Day and night phenomenon occurs due to the rotation of the Earth around
 a. the Sun b. the moon
 c. the solar system d. its axis
- 3 The Sun and other stars are made up of
 a. hot solids b. hot gases c. cold solids d. cold liquids

(B) Give a reason for:

- The Sun looks much larger to us than other stars.
-

Q2. (A) Correct the underlined word:

- Gibbous is the moon phase at which one edge only appears bright.
 (.....)

(B) Complete the following sentences:

- 1 The wide space that contains celestial object is called
- 2 Some telescopes on the Earth's surface can't observe distant celestial bodies due to the presence of the

Q3. (A) Put (✓) or (X):

- we can see different constellations in winter than in summer due to the Earth's revolution. ()

(B) Mention two technological tools that help us see distant celestial bodies in space in more details:

- 1
- 2

حمل الآن

مجاناً وحصرياً

المراجعة رقم (4)

اختبار شهر ابريل



Science Exam 1

1 A) Choose the correct answer:

The gravity of affects the movement of ocean tides.
(a) Earth (b) Sun (c) Moon (d) Jupiter

B) Give a reason for each of the following:

(1)  The moon looks bright in the sky.



(2) Objects fall on the ground.



(3)  The moon has different phases in the night sky.



(4) Planets revolve around the Sun in fixed orbits.



2 A) Write the scientific term:

An elliptical path in which the planet revolves around the Sun.

()

B) What happens...?

(1) When the rotation of the Earth on its axis in front of the Sun.



(2) If the Earth stopped rotating on its axis.



(3) If a magnet is placed near some iron paper clips.



(4) If there is no gravity on Earth.



3 A) Put (✓) or (X):

- (1) Stars are made up of superhot gases. ()
- (2) The moon reflects the sunlight. ()

B) Mention one example for each:

- (1) A constellation. ►
- (2) Material that is attracted to magnets.
►
- (3)  A type of technology tools used to see asteroids.
►

4 A) Correct the underlined word:

- (1) Objects fall down due to the friction force. (.....)
- (2)  The force of gravity between two objects increases when the distance increases (.....)

B) Answer the following:

- (1)  Why does the moon revolve around the Earth in a fixed orbit?
►
- (2) What is the result of Earth revolving around the Sun every year?
►
- (3) When does the full moon occur?
►

Science Exam 2

1 A) Choose the correct answer:

The fastest rotating planet in the solar system is

- (a) Earth (b) Mars (c) Jupiter (d) Saturn

B) Give a reason for each of the following:

- (1)  People found it was useful to know the locations of the constellations in the night sky.

▶

- (2) The cycle of four seasons.

▶

- (3) The moon is a dark body, but we see it shiny at night.

▶

- (4) A magnet pulls iron nails.

▶

2 A) Write the scientific term:

A force is generated between two objects in contact and slows down the speed. ()

B) What happens...?

- (1) When the Earth revolves around the Sun every year.

▶

- (2) When half of the Earth faces the Sun.

▶

- (3) If the distance between the Moon and the Earth increases.

▶

- (4)  When you press the brake of the car.

▶

3 A) Put (✓) or (X):

- (1) Air resistance slows down the speed of a parachute. ()
- (2) The Sun is a planet that gives off light. ()

B) Mention:

- (1) The importance of the Hubble Telescope.
▶
- (2) A phase of the Moon that appears on the first day of the lunar month.
▶
- (3) Two tools used to discover the universe.
▶

4 A) Correct the underlined word:

- (1) The phenomenon of four seasons occurs due to the rotation of Earth on its axis. (.....)
- (2) The force that opposes the objects moving in the air is called magnetism. (.....)

B) Answer the following:

- (1) Why is Earth called a blue marble?
▶
- (2)  What happens if the Sun has no gravity?
▶
- (3)  Why is the Sun the center of motion of the planets in the solar system?
▶

Science Exam 3

1 A) Choose the correct answer:

If an object is projected vertically upwards, so the object

- (a) returns again to Earth under effect of gravity
- (b) floats in space because there is no gravity
- (c) clings because its gravity equals that of Earth
- (d) moves fast towards space

B) Give reason for each of the following:

- (1) The moon appears bright although it has no light of its own.
▶
- (2) The length and position of the shadow change during the day.
▶
- (3) We can't feel the spinning of the Earth and it seems to be stationary.
▶
- (4) The moon gravity is less than Earth gravity
▶

2 A) Write the scientific term:

Orion the hunter is one of its examples. ()

B) What happens...?

- (1) When the moon completes one revolution around Earth.
▶
- (2) To the speed of the skydiver when he opens his parachute during landing.
▶
- (3) To the gravity between the Earth and the Moon when the Moon's mass is doubled.
▶

- (4)  When throwing paper and clothes peg at the same time from the window.



3 A) Put (✓) or (X):

- (1) Air resistance slows down the speed of moving objects through air. ()
- (2) The Moon does not reflect the sunlight falling on it. ()

B) Mention:

- (1) The reason that some constellations are always visible.



- (2) One benefit of the Moon's gravity on Earth.



- (3) Two factors affecting gravity between two objects.



4 A) Correct the underlined word:

- (1) The center of the solar system is the Earth. ()
- (2) The Moon produces its own light. ()

B) Answer the following:

- (1) What is the result of the rotation of the Earth around its axis?



- (2) Why does the Moon have different phases?



- (3)  What are the two factors affect the length and the angle of the shadow?



Science Exam 4

1 A) Choose the correct answer:

-  The idea of sundial depends on
- (a) formation of shadows
 - (b) rotation of object around its axis
 - (c) motion of the moon
 - (d) falling objects under the effect of gravity

B) Give reason for each of the following:

- (1) The Moon is attracted to Earth.



- (2)  Moon phases change during the lunar month.



- (3)  The Moon's gravity is less than Earth's gravity.



- (4) Paper clips are attracted to the magnet.



2 A) Write the scientific term:

A type of friction force that generated by the movement of an object through the air.

()

B) What happens...?

- (1) When the Earth rotates around its axis.



- (2)  For the planets, if the Sun has no gravity.



- (3) When putting pieces of iron near a magnet.



- (4)  When the cycle of day and night completes.



3 A) Put (✓) or (X):

- (1) The Moon appears as a full moon at the beginning of the lunar month. ()
- (2) Constellations have similar shapes in the sky. ()

B) Mention:

- (1) One example of a device used to see distant celestial bodies.



- (2) The importance of telescopes.



- (3) The two factors affecting the gravity of Earth.



4 A) Correct the underlined word:

- (1) The Sun is a planet. (.....)
- (2) Gravity is affected by the color of an object. (.....)

B) Answer the following:

- (1)  What is meant by a galaxy?



- (2)  Why does the Sun appear to move in the sky?



- (3)  Who discovered that the Sun is the center of the solar system?



Science Exam 5

1 A) Choose the correct answer:

The Earth rotates on its axis once every

- (a) 24 hours (b) 365 days (c) 365 hours (d) 24 days

B) Give a reason for each of the following:

- (1) The Moon appears to be shiny.



.....

- (2) Astronauts jump higher on the Moon than on Earth.



.....

- (3)  The Moon revolves in a fixed orbit around the Earth.



.....

- (4)  The stability of objects on the Earth's surface.



.....

2 A) Write the scientific term:

A group of stars, planets and gases held together by gravity.

()

B) What happens...?

- (1) When using the car brake.



.....

- (2) When the gravity between Earth and the moon is absent.



.....

- (3) When half of the Earth faces the Sun.



.....

- (4) If Earth's gravity becomes half as strong.



.....

3 A) Put (✓) or (X):

- (1) The Sun contains highly explosive gases. ()
- (2) Jupiter is the fastest planet that rotates on its axis. ()

B) Mention:

- (1) Two tools used to discover the universe.

▶

- (2) One example of a star in our solar system.

▶

- (3) An example of constellation.

▶

4 A) Correct the underlined word:

- (1) People used to know time 1000 years ago by using a watch. ()
- (2) Magnets attract objects which are made up of wood. ()

B) Answer the following:

- (1) Why does the moon stay in a fixed orbit around the Earth?

▶

- (2) How does the Sun produce its heat and light?

▶

- (3) What is the result of Earth not rotating on its axis?

▶

Exam (1)

- 1 **A)** (c) moon.
B) (1) Earth's moon reflects the light of the sun.
(2) Gravity pulls the ball toward the ground.
(3) The difference in Moon's phases in one full lunar month (Hijri month) happens due to its revolution around Earth in an elliptical orbit.
(4) The sun's powerful gravitational force makes the planets revolving around the sun.
- 2 **A)** Orbit.
B) (1) When Earth rotates, one side faces away from the sun, causing night. One side faces the sun, causing day.
(2) One side would always face the sun (constant day) and the other side constant night.
(3) A magnet can pull paper clips by using the force of magnetism.
(4) The force of gravity keeps us from floating into space like an astronaut - Without gravity, objects would float into space.
- 3 **A)** (1) ✓ (2) ✓
B) (1) The Constellation Orion.
(2) Iron, nickel and cobalt.
(3) Tools like binoculars as Galileo binoculars and telescopes as Hubble Space Telescope.
- 4 **A)** (1) gravity. (2) decreases.
B) (1) The moon stays in an orbit around Earth due to Earth's gravity.
(2) Different constellations are visible, seasons occur.
(3) This phase appears in the middle of the lunar month, where the apparent face of the moon to us is fully illuminated.

Exam (2)

- 1 **A)** (c) Jupiter.
B) (1) They can use stars to find direction.
(2) These changes result from Earth's path around the sun.
(3) Earth's moon reflects the light of the sun.
(4) Magnetism is a force that attracts metal objects by pulling on them such as iron, nickel and cobalt.
- 2 **A)** Friction.
B) (1) These changes result from Earth's path around the sun. - Different constellations become visible.

- (2) At any time during its rotation, half of Earth faces the sun. This part experiences day.
- (3) As the mass of the object increases, the more gravity it has. - If distance increases, gravity decreases.
- (4) A bicycle brake pulls back the movement of the tires by friction when it rubs against the tires.
- 3 **A)** (1) ✓ (2) ✗
B) (1) Telescopes as Hubble Space Telescope help us take a closer look at the surface of the moon, passing objects like asteroids, our neighboring planets, and stars within and beyond our galaxy.
(2) First crescent: The first phase of lunar phases, where the moon shape is a small shiny crescent, its size increases gradually with time.
(3) Tools like binoculars as Galileo binoculars and telescopes as Hubble Space Telescope.
- 4 **A)** (1) revolution. (2) air resistance.
B) (1) There is so much water on Earth that our planet looks like a blue marble from space.
Nearly three-quarters of Earth is covered by water.
(2) Without gravity, the planets would fly off into space.
(3) The sun's powerful gravitational force makes the planets revolving around the sun.

Exam (3)

- 1 **A)** (a) returns again to Earth under effect of gravity
B) (1) Earth's moon reflects the light of the sun.
(2) Shadows teach us that as the sun appears to move throughout the day, so does the shadow.
(3) Our planet rotates at a speed of more than 1,600 kilometers per hour on its axis. This is very fast, but from our viewpoint, it seems like Earth is standing still. That is because we are moving with Earth.
(4) Mass of the Earth is greater than the mass of the moon, so the Earth's gravity is greater than the moon exert greater force on objects around them.
- 2 **A)** Constellation.
B) (1) After one revolution of moon around the Earth one whole lunar (hijri) month completes.
(2) Parachutes catch the upward flow of wind, creating air resistance which pulls skydivers backward and slows their fall to Earth.
(3) As the mass of the object increases, the more gravity it has." - Gravity would increase.

(4) The clothes peg will hit the ground first because air resistance slows the paper more because of its low weight.

3 **A)** (1) ✓ (2) X

B) (1) Stars close to the poles, the imaginary points where Earth's north and south axes point in space, have a very small circle of spin. The placement of these constellation varies little throughout the year.

(2) The moon's gravity causes tides.

(3) Mass and distance.

4 **A)** (1) Sun. (2) Sun or Stars.

B) (1) We have day and night because Earth rotates, or spins, on its axis.

(2) The difference in Moon's phases in one full lunar month (Hijri month) happens due to its revolution around Earth in an elliptical orbit.

(3) The position of the sun in the sky and the time of day.

Exam (4)

1 **A)** (a) formation of shadows – "Sundials have been used to tell time for thousands of years.

B) (1) The moon stays in an orbit around Earth due to Earth's gravity.

(2) The difference in Moon's phases in one full lunar month (Hijri month) happens due to its revolution around Earth in an elliptical orbit.

(3) Mass of the Earth is greater than the mass of the moon, so the Earth's gravity is greater than the moon exert greater force on objects around them.

(4) "Magnetism is a force that attracts metal objects by pulling on them such as iron, nickel and cobalt.

2 **A)** Air resistance.

B) (1) When Earth rotates, one side faces away from the sun, causing night. One side faces the sun, causing day.

(2) Without gravity, the planets would fly off into space.

(3) A magnet can pull paper clips by using the force of magnetism.

(4) Earth takes a whole day, or 24 hours, to make one complete turn. – One day completes.

3 **A)** (1) X (2) X

B) (1) Tools like binoculars as Galileo binoculars and telescopes as Hubble Space Telescope.

(2) Telescopes as Hubble Space Telescope help us take a closer look at the surface of the moon, passing objects like asteroids, our neighboring planets, and

stars within and beyond our galaxy.

(3) As the mass of the object increases, the more gravity it has. – Mass and distance from center.

4 **A)** (1) star. (2) mass.

B) (1) A galaxy is a large system of stars, gas, and dust held together by gravity.

(2) Earth rotates from west to east, so the sun appears to rise in the east and set in the west.

(3) Nicolaus Copernicus stated that Earth revolved around the sun.

Exam (5)

1 **A)** (a) 24 hours.

B) (1) Earth's moon reflects the light of the sun.

(2) Mass of the Earth is greater than the mass of the moon, so the Earth's gravity is greater than the moon exert greater force on objects around them.

(3) The moon stays in an orbit around Earth due to Earth's gravity.

(4) The force of gravity keeps us from floating into space like an astronaut.

2 **A)** Galaxy.

B) (1) A bicycle brake pulls back the movement of the tires by friction when it rubs against the tires.

(2) The moon would fly away and there wouldn't be tides.

(3) At any time during its rotation, half of Earth faces the sun. This part experiences day.

(4) The force of gravity keeps us from floating into space. – Objects would weigh less.

3 **A)** (1) ✓ (2) ✓

B) (1) Tools like binoculars as Galileo binoculars and telescopes as Hubble Space Telescope.

(2) The sun.

(3) Orion.

4 **A)** (1) Sundial. (2) iron.

B) (1) The moon stays in an orbit around Earth due to Earth's gravity.

(2) The sun is a giant sphere of highly explosive gas made mostly of hydrogen and helium. As stars burn gas that reduces huge light energy and heat energy.

(3) One side would always face the sun (constant day) and the other side constant night.

حمل الآن

مجاناً وحصرياً

المراجعة رقم (5)

اختبار شهر ابريل



Concept 1: Effects of Gravity**Week (9)****Get started - Lesson: (1 - 2 - 3)****Date:** / /**▶ Classroom Performance:****Learning journey** Scientific fact studied.

- **How** does the force of gravity affect the movement of celestial bodies and maintain our solar system?

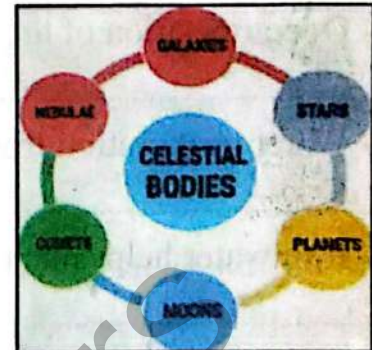
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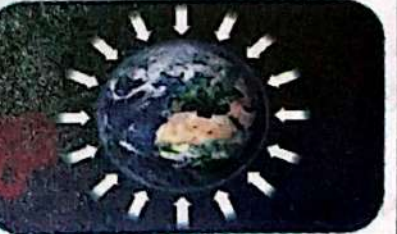
- **What** celestial bodies do we see in the sky day and night?

.....

- The force of gravity controls the movement of the universe.

By observing the following picture: what is the role of gravity in each picture?



		
.....		
		
.....		
		
.....		



Gravitational forces are not limited to the earth. **Explain?**

- Mention the properties of gravity?



Properties of gravity

1-

2-

3-



What happens?

A- To Gravity force between Earth and its Moon If mass of the Moon is doubled.

B- To Gravity force between Earth and its Moon If distance between them is doubled.

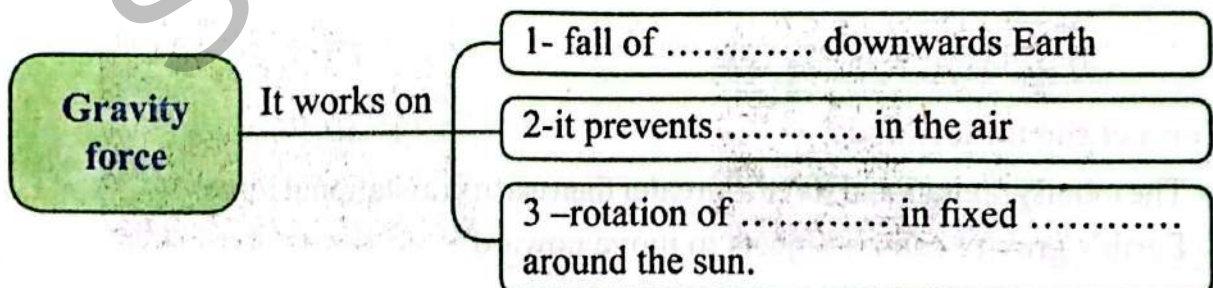
How do objects move?

- Objects move due to two forces: the force of and the force of in which a magnet pulls the metal clip paper or pushes another magnet.
- force that pulls the glass cup that fell from your hand towards the ground
- Also force that causes the movement of the turbine arms and their rotation.



Give reasons The planets revolve around the sun in a fixed orbit.

Complete the following diagram:



- Using schoolbook in the view of your studied, write down what the following refers:

Gravity	
Orbit	

Homework (Performance):

Complete the following:

- 1- The force that returns the ball after it is thrown upward is a force.
- 2- If the distance between earth and its moon increases the attraction force between them is.....
- 3- Magnetic is considered a force and force.
- 4- Gravity is considered a force.

Read the following statement and then correct the false ones:

- 1- Earth's gravity is greater than the moon's gravity.
- 2- The greater the mass of an object, the less its gravitational force.
- 3- The magnetic force is only a pulling force.
- 4- The force of gravity exists only between objects in contact.
- 5- The downward fall of objects occurs due to friction force.

Weekly assessment:

First test

Complete the following:

- If the distance between the moon and earth increases the gravitational force between them

Give reason? The stability of objects on the earth's surface.

.....

Correct the underlined:

- 1- The moon gravitational force is greater than earth gravitational force. (.....)
- 2- Earth's gravity causes objects to move upward. (.....)

Second test**Complete the following:**

- As the of the body increase its gravity increases.

Give reason? The moon orbits Earth in a fixed orbit.

.....

Correct the underlined:

- 1- When anybody falls from a high place, it moves upwards. (.....)
- 2- When the distance between two bodies increases, the force of attraction between them is increasing. (.....)

Third test**Complete the following:**

- The gravitational force between two objects is decreased when the distance between them

Give reason? The moon gravity is less than Earth gravity.

.....

Correct the underlined:

- 1- Gravitational force increases as the body is higher above the earth's surface. (.....)
- 2- Waterfalls pushed from the top of the river downwards due to air resistance. (.....)

Concept one: Effect Of Gravity**Week (10)****Lesson: (4 - 5 - 6)****Date: / /****▶ Classroom Performance:****Trip to the space**

Why does not the moon collide with Earth planet while orbiting in outer space?

.....

Every object that raises upwards falls towards

The center of Earth. Explain?

.....



Complete:

a- The mass of Earth is than the mass of the moon so, orbits

b- The mass of Earth is than the mass of Sun so, orbits

Write the relationship between cause and effect in the following phrases :

Causes	Effects
The friction of the car tires on the road.	
The gravity of Earth pulls the moon.	
Earth gravity pull the ball down.	

Explain

Explain? A book resting on a table.

.....

What happens?

When there is no gravity between Sun and the planets.

.....

Using your school book and in view of your studied, write down what the following refers:

Friction

.....

Homework (Performance):

Complete the following:

- 1- forces that occurs between two touching surfaces and slow down the motion of the objects.
- 2- The force that returns ball to the ground after it has been thrown upward is
- 3- pull skydivers upward to slow down their fall downward the ground.

Read the following statements and then correct False ones:

- 1- Friction increases the speed of an object.
- 2- Air resistance does not reduce the speed of a moving object.
- 3- Gravity affects the revolving speed of the planets around the sun.
- 4- An orbit is a spherical shape in which the planets revolve around the sun.
- 5- The planets revolve around Sun in fixed orbits under the effect of Sun's gravity.
- 6- Lightest objects reach earth faster than heaviest objects in the absence of air.

Weekly assessment:**First test****Complete the following:**

- Revolving of planets around Sun is in fixed orbits due to the effect of....

Write what the following statement refers:

A type of friction force that occurs due to the movement of objects in the air.

(.....)

Give reason? Sun is the center of motion in the solar system.**Correct the underlined:**

- 1- Magnets attract objects made of wood. (.....)
- 2- The force of gravity between two objects increases as the distance between them increases. (.....)

Second test**Complete the following:**

- Magnets attract some metals, such as

Write what the following statement refers:

Sun and the planets group revolve around it.

(.....)

Give reason? Earth's gravity is greater than Moon gravity.**Correct the underlined:**

- 1- Air resistance effects a body falling downward in the same direction as Earth's gravity. (.....)
- 2- The force that occurs between two touching surfaces and slows down movement is known as magnetism. (.....)

Third test**Complete the following:**

- reduces the speed of moving objects in the air.

Write what the following statement refers: The force that arises between two objects in contact and slows down the movement of the object. (.....)**Give reason:** The Moon revolves around Earth in a fixed orbit.**Correct the underlined words:**

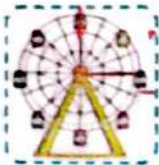
- 1- Earth is the center of motion in the solar system.
- 2- The magnet pulls the metal paper clips because of the gravitational force.

Concept (2): Patterns of motion in the sky**Week (11)****Lesson: (1 - 2)****Date: / /****▶ Classroom Performance:**

Stars come together to form patterns that human named them as they see or imagine them in the sky.



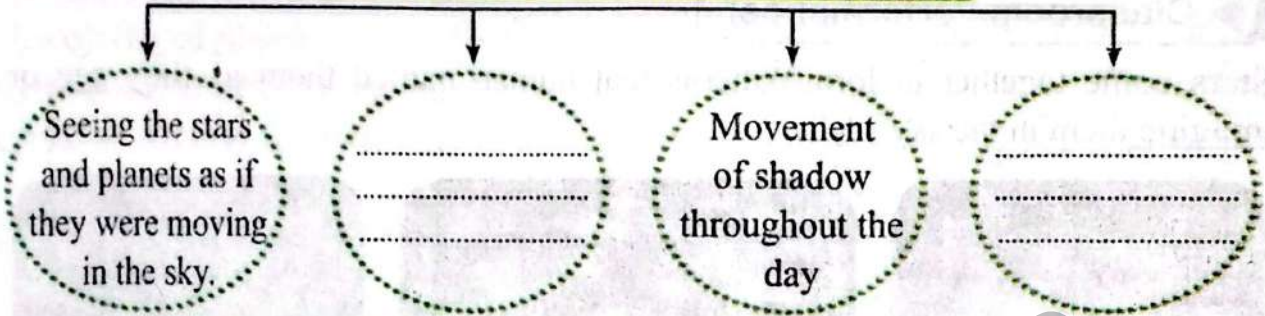
Look at these pictures and discusses with your classmates to know which one is orbiting round itself and which is orbiting in an orbit.



We reach the space:

Complete the diagram:

The rotation of Earth on its axis causes:



Seeing the stars and planets as if they were moving in the sky.

Movement of shadow throughout the day



Compare between the earth's rotation around its axis and the earth's revolution around the sun

Revolution	Rotation
	

Look at the corresponding figure and then answer:

- The movement of Earth around its axis causes the phenomenon of
- Where the half of Earth faces the sun has the other half of Earth that faces away from sun has

What happens if the Earth doesn't rotate around its axis?



Using your student book in the view of you studied, write down what the following refers to:

Earth's axis	
--------------	-------

Homework (Performance):

Complete the following:

- 1- Earth spins around and orbits around
- 2- During Earth's rotation around its axis, half of Earth facing Sun is
- 3- The imaginary line that passes through the north and the south pole of Earth is called
- 4- Cycle of day and night occurs due to Earth's rotation around

Read the following sentences then correct the wrong one:

- 1- Earth rotates around its axis once every hour.
- 2- Sun looks like it's moving in the sky.
- 3- The fastest-rotating planet around Earth is Jupiter.
- 4- The cycle of day and night occurs once a year.
- 5- The planets of the solar system revolve around Sun at similar speeds.
- 6- Earth's rotation around Sun causes the cycle of night and day.

Weekly assessment:

First test

Complete the following: Earth rotatesclockwise around its vertical axis

Write what the following statement refers:

The fastest planet that rotates on its axis in the solar system. (.....)

Give a reason: We can't feel the spinning of Earth and it seems to be stationary.

.....

Correct the underline words:

- Earth rotates around its axis, which runs horizontally.
- The cycle of night and day occurs due to the rotation of Earth around Sun.

Second Test

Complete the following: A phenomenon of occurs, because of Earth's rotation around its axis.

Write what the following statement refers:

An imaginary line that passes through the North and the South Poles of Earth. (.....)

Give a reason: We can't feel the spinning of Earth and it seems to be stationary.

.....

Correct the underlined word:

- Mars is the fastest-rotating planet on its axis in the solar system.
- During Earth's rotation around its axis, the half of Earth facing Sun is night.

Third Test

Complete: is the fastest-rotating planet on its axis in the solar system.

Write what the following statement refers:

It is a phenomenon that occurs when Earth rotates on its axis. (.....)

Give a reason: We can't feel the spinning of Earth and it seems to be stationary.

.....

Correct the underlined word:

- Earth takes 365 days to make a complete cycle on its axis.
- During Earth's rotation around its axis, half of Earth away from Sun is day.

Monthly exercise (2)

Write what the following statement refers:

- 1- Frictional force that arises between the moving objects and air. (.....)
- 2- An oval path in which the planets revolves around Sun. (.....)
- 3- An imaginary line that passes through the North and the South Poles of Earth. (.....)
- 4- A celestial body that controls the rotation of the planets around it due to its gravitational force. (.....)

Complete the following statements:

- 1- Sun is in the middle of the sky at
- 2- The gravitational force between two objects depends on the two bodies.
- 3- The Moon revolves around Earth this indicated a gravitational force of is greater than the gravitational force of

What is meant by: 1- Friction

2- Gravity

Read the following sentences and then correct the incorrect one:

- 1- When an object is thrown upwards into the air, gravity causes it to change the direction of its motion.
- 2- Earth revolve around Sun in a spiral orbit.
- 3- Gravity can be seen and its effects is observed.
- 4- Changing the position of the shadows of the objects throughout the day results in the apparent movement of Sun.
- 5- The higher the object is above Earth's surface, the more the force of gravity affects it.
- 6- The half of Earth facing Sun during Earth rotation around its axis is nigh.
- 7- When we approach two different poles of two magnets, they push each other.

Give reasons for the following:

- 1- Sun has more gravity than Earth.
-

2- The skydiver appears to be swimming in space,

3- In the sky, the moon and stars look as if they rise and set ,

4- Cycle night and day,

5- The apple falls from the tree,

6- The Moon revolves in a fixed orbit around Earth.

Choose the right answer:

1- The cycle of seasons during the year is due to Earth's revolution around ...

- a) The moon b) the galaxy c) its axis d) Sun

2- All the following is true for gravitational force except

- a) Objects are pulled toward the center. c) Visible force.
b) Objects fall from above to the ground. d) affects non-contact.

3- Earth rotates aroundevery 24 hours

- a) its axis b) Sun c) Moon d) Star

4- Magnets attract some metals such as

- a) Iron and nickel b) Aluminum and copper
c) Iron and gold d) Copper and silver

5- Earth looks like a..... sphere from the space ,because water covers most of the planet's surface .

- a) Blue b) Green c) Yellow d) Red

What happens if :

1- The distance between Earth and the Moon doubled relative to the gravitational force between them.

2- Throwing paper and clothes peg at the same time from a window on the third floor.

3. Earth stop rotating around on its axis.

4- Lack of gravity.

Answer the following:

1- What happens if there is no gravity between Earth and the Moon?

2- What is the force that causes the pen to fall from your hand?

3- An object with a mass of 80 kilograms, and another object with a mass of 50 kilograms. Which of them is affected by more gravity if they are at the same height above Earth's surface?

4- How long does Earth take to rotate around its axis ?

5- Look at the corresponding shape, then choose:

a) The parachutist falls to the ground by force.
(Light – Gravity)

b) The friction force between air and the balloon leads
the Speed of landing. (Increasing - decreasing)

6- What is the force that stops the car when we use the brakes?

7- What is the importance of gravitational force?

8- Who discovered that Sun is the center of the solar system?

9- What are the factors affecting the gravitational force between two objects ?

10- What force decreases the speed of a moving ball on the ground?

11- What is the difference between Earth's rotation on its axis and its revolution Sun?



Concept (2): Patterns of motion in the sky

Week (12)

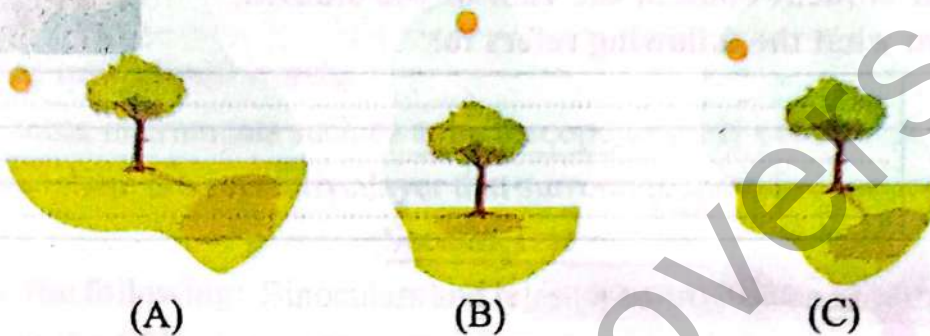
Lesson: (3 - 4)

Date: / /

▶ Classroom Performance:

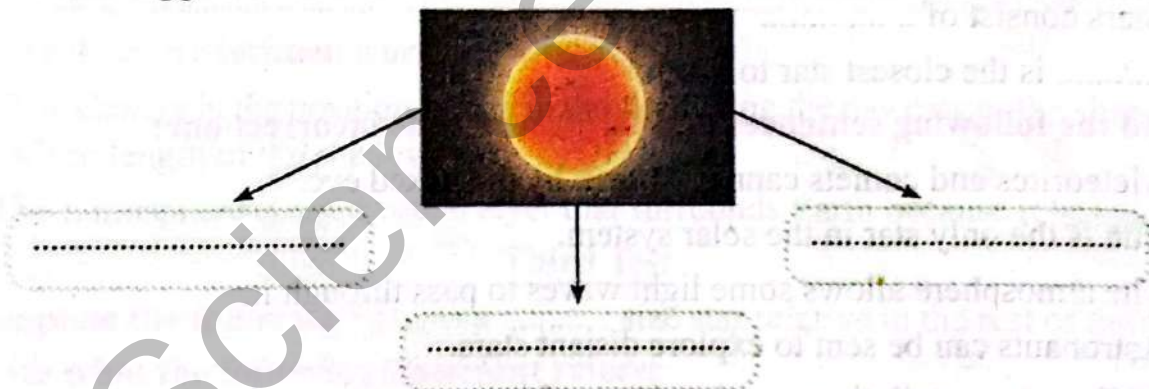
The position of my shadow

Which of the following pictures shows what the tree's shade looks like in the middle of the day?



What are the two factors that affect the length and angle of the shadow?

Sun seems biggest to us than the rest of the stars **Write three** facts about Sun.





Astronauts cannot be sent to study celestial bodies? because they are so far from us, **tools** can be used to see distant celestial bodies at close up, **mention some** of these instruments?



- Look at the corresponding picture and answer:

- This group is called
- The name of this group of stars is



Using your student book in the view of you studied, write down what the following refers to:

Stars	
Galaxy	
Telescope	

Homework (Performance):

Complete the following:

- Orion the Hunter is an example of a in the sky.
- In the early morning, the person's shadow is in direction .
- Stars consist of
- is the closest star to Earth.

Read the following sentences and then correct the incorrect one:

- Meteorites and comets cannot be seen by the naked eye.
- Sun is the only star in the solar system.
- The atmosphere allows some light waves to pass through it.
- Astronauts can be sent to explore distant stars.
- Different constellations can be observed in summer more than in winter.
- A group of stars that look like it forms a pattern of a certain shape in the sky is called a constellation of stars.

Weekly assessment:**First test****Complete the following:**

The length of the shadow varies by changing the location of the in the sky.

Write what the following statement refers:

A group of stars form a certain shape in the sky. (.....)

Give reason: Sun seems to be the greatest star to us than other stars.**Correct the underlined words:**

1. We use some instruments such as a microscope to study celestial bodies.
2. The atmosphere is a protective layer that surrounds Earth because it has clouds.

Second Test**Complete the following:** Binoculars and telescopes are instruments used in**Write what the following statement refers:**

Giant celestial bodies made up of superhot gases. (.....)

Give reason: Sun looks much larger to us than other stars.**Correct the underlined words:**

- 1- The change in the position of Sun in the sky during the day causes the similarity of the length of the shadow.
2. The atmosphere is a protective layer that surrounds Earth because it has clouds.

Third Test**Complete the following:** Sun is a size star relative to the rest of the stars.**Write what the following statement refers:**

Giant celestial bodies made up of superhot gases. (.....)

Give reason: The length and angle of shadows vary throughout the day.**Correct the underlined word:**

- 1- The closest star to Earth is Jupiter.
- 2- Conestellations appear more in spring.

كيفية طباعة صفحات معينة من ملف معين

مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9

